

The diagram illustrates a virtual machine architecture. At the top, two virtual machines are shown: 102 and 114. Virtual machine 102 contains an operating system (OS #1) and two applications (App. 1 and App. 2). Virtual machine 114 contains an operating system (OS #2) and two applications (App. 1 and App. 2). Below the virtual machines is a Virtual-Machine Monitor (VMM) 112, which manages the execution of the virtual machines. At the bottom is the Bare Platform Hardware 116, which provides the physical resources for the VMM and the virtual machines.

FIG. 1

FIG. 1

Page-table hierarchy 204

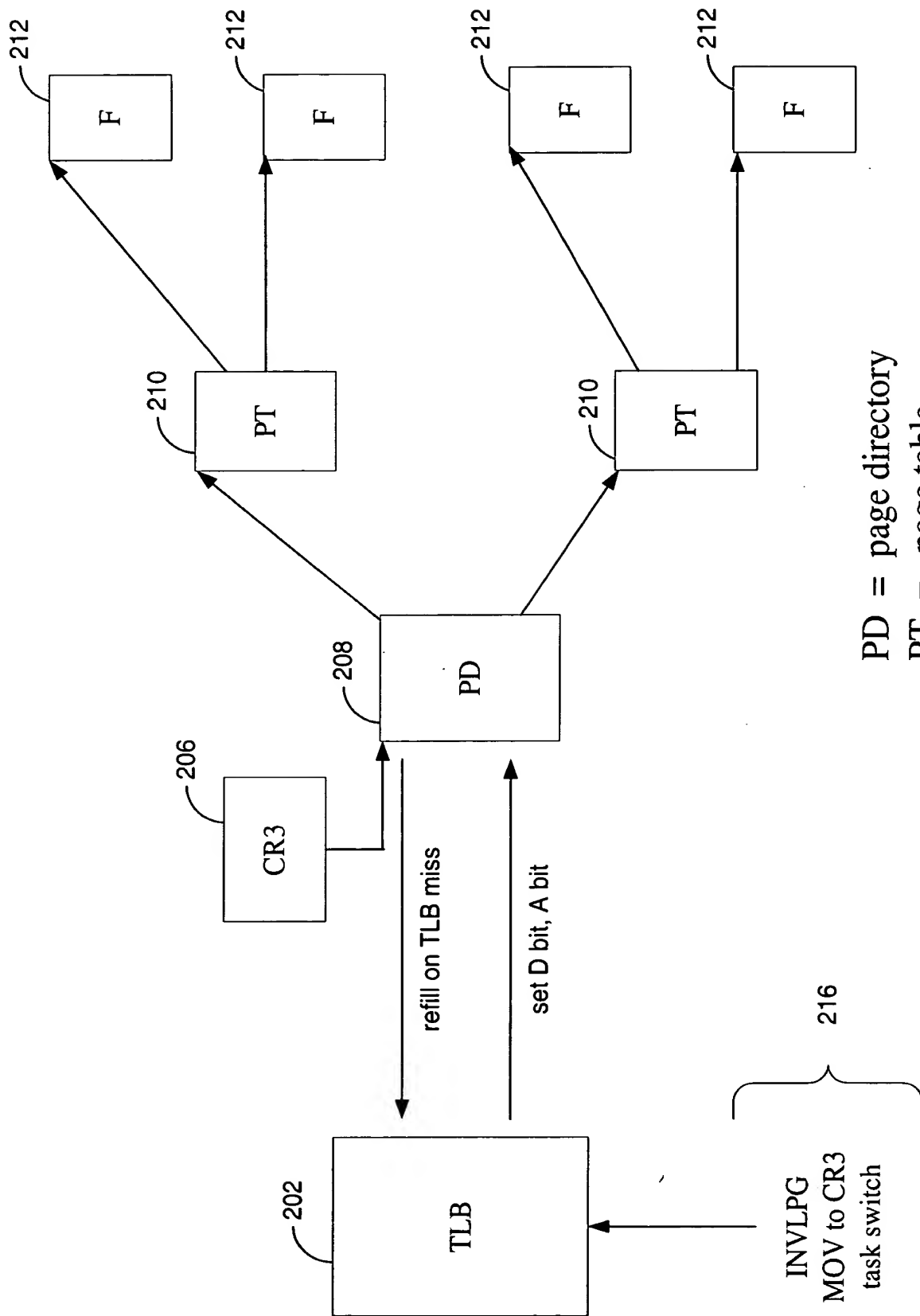


FIG. 2

Prior Art

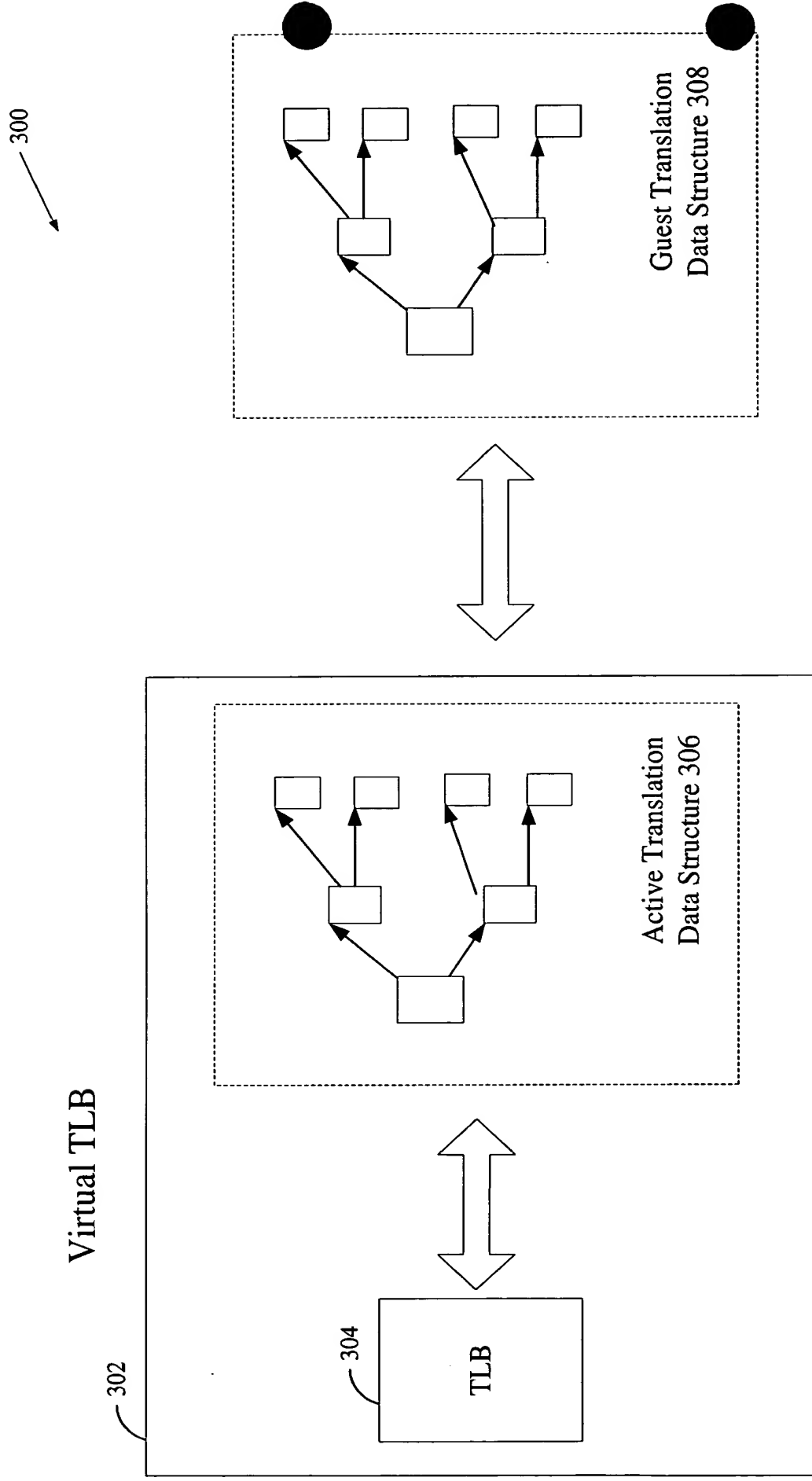


FIG. 3

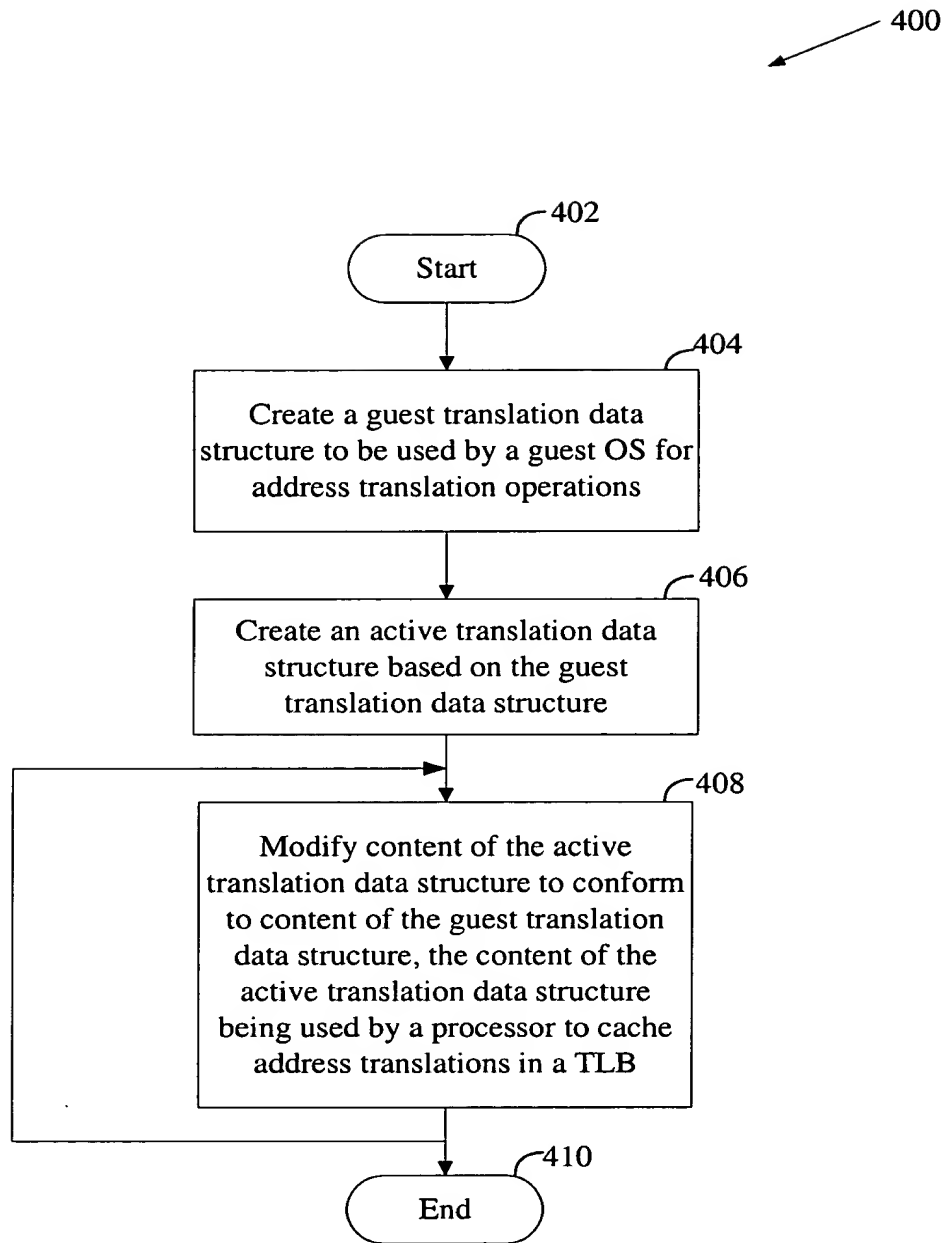


FIG. 4

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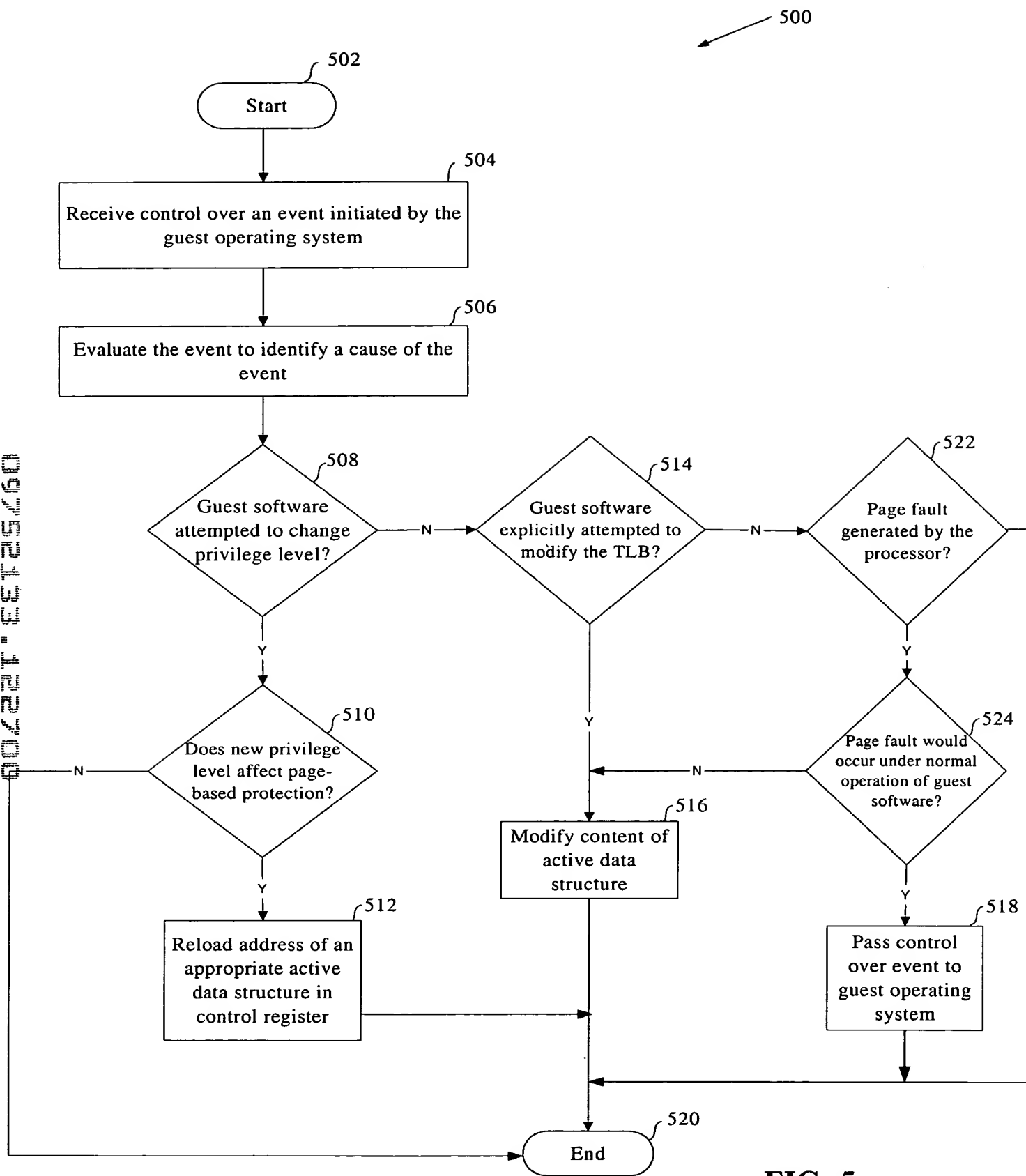
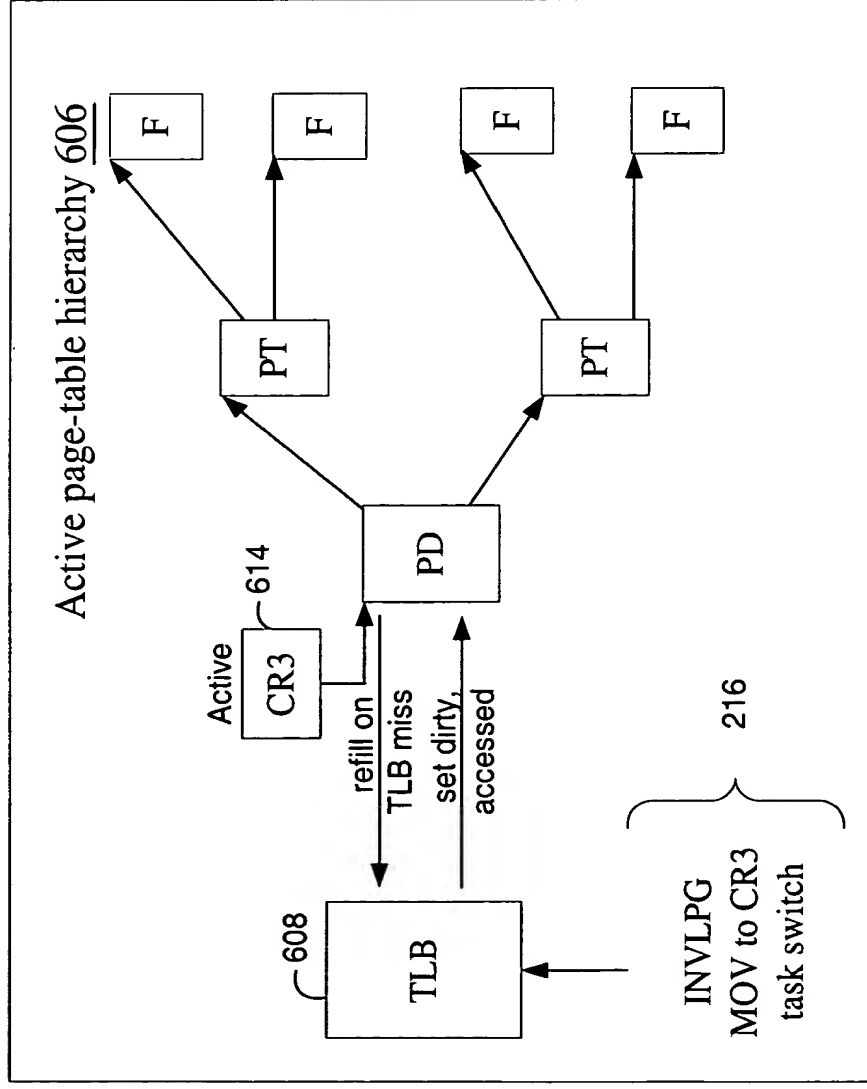
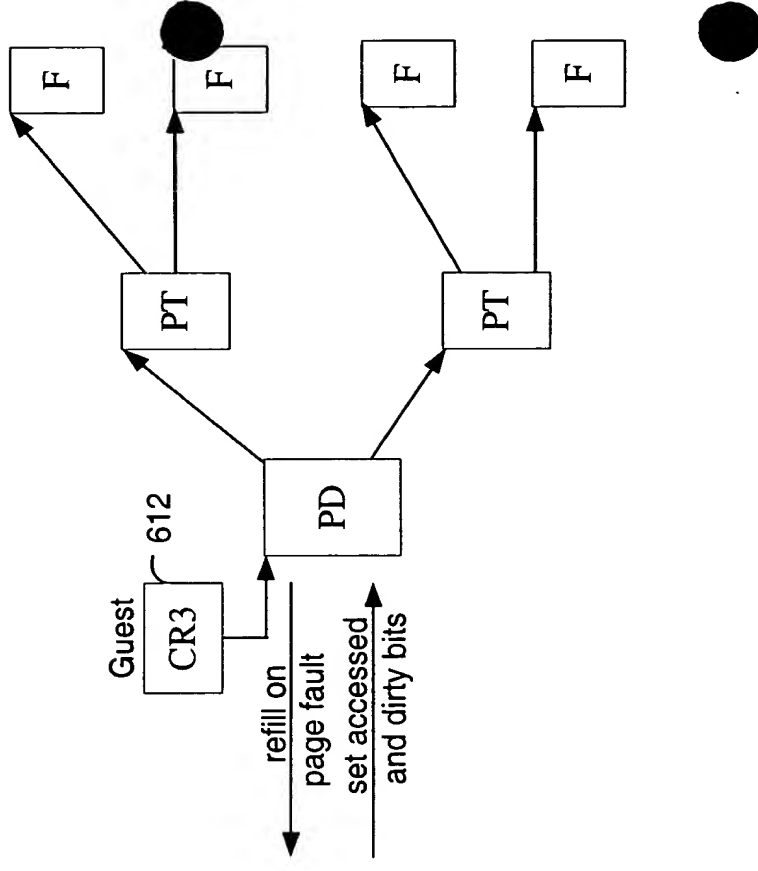


FIG. 5

"Virtual TLB" 604



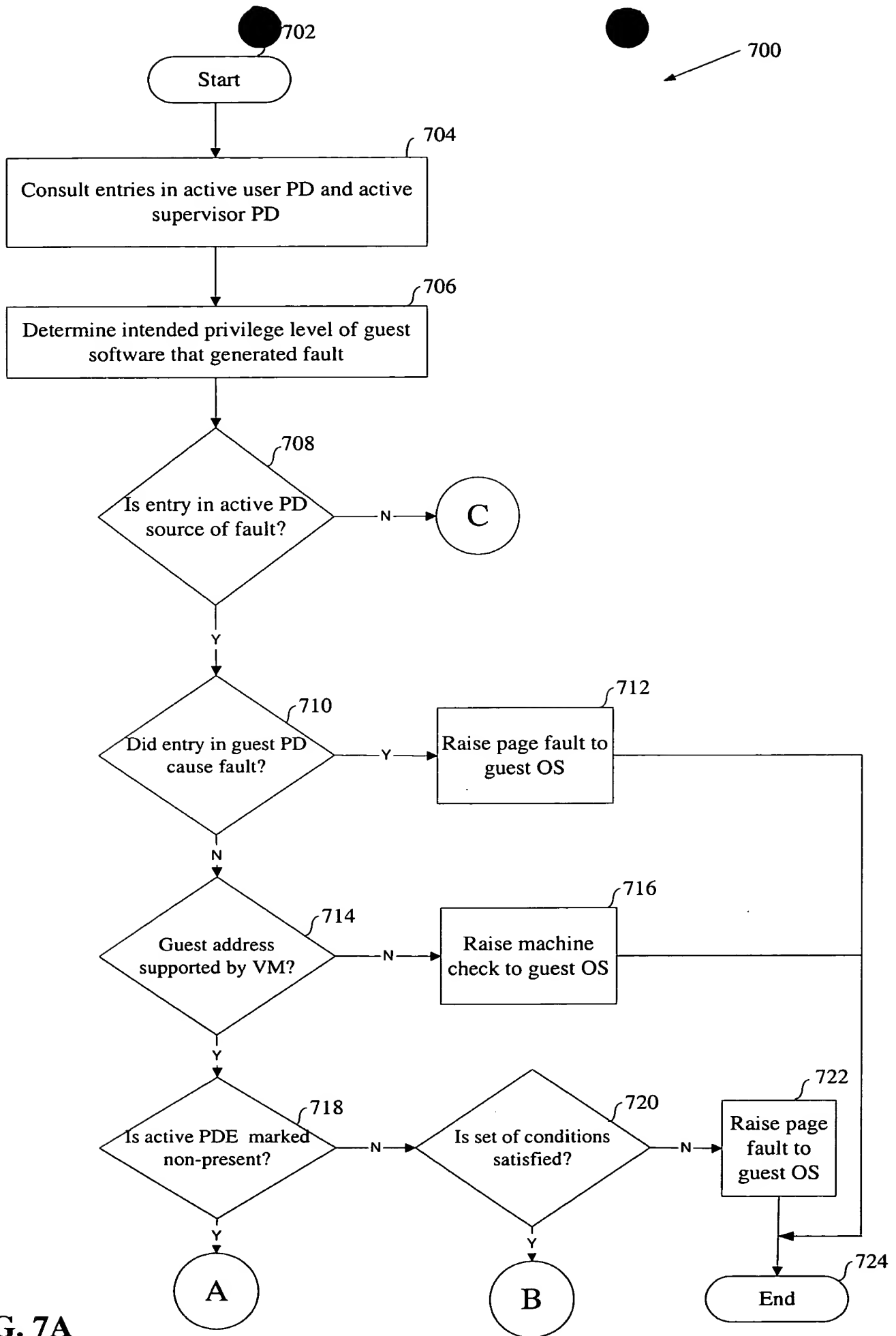
Guest page-table hierarchy 602



PD = page directory
PT = page table
F = page frame

FIG. 6

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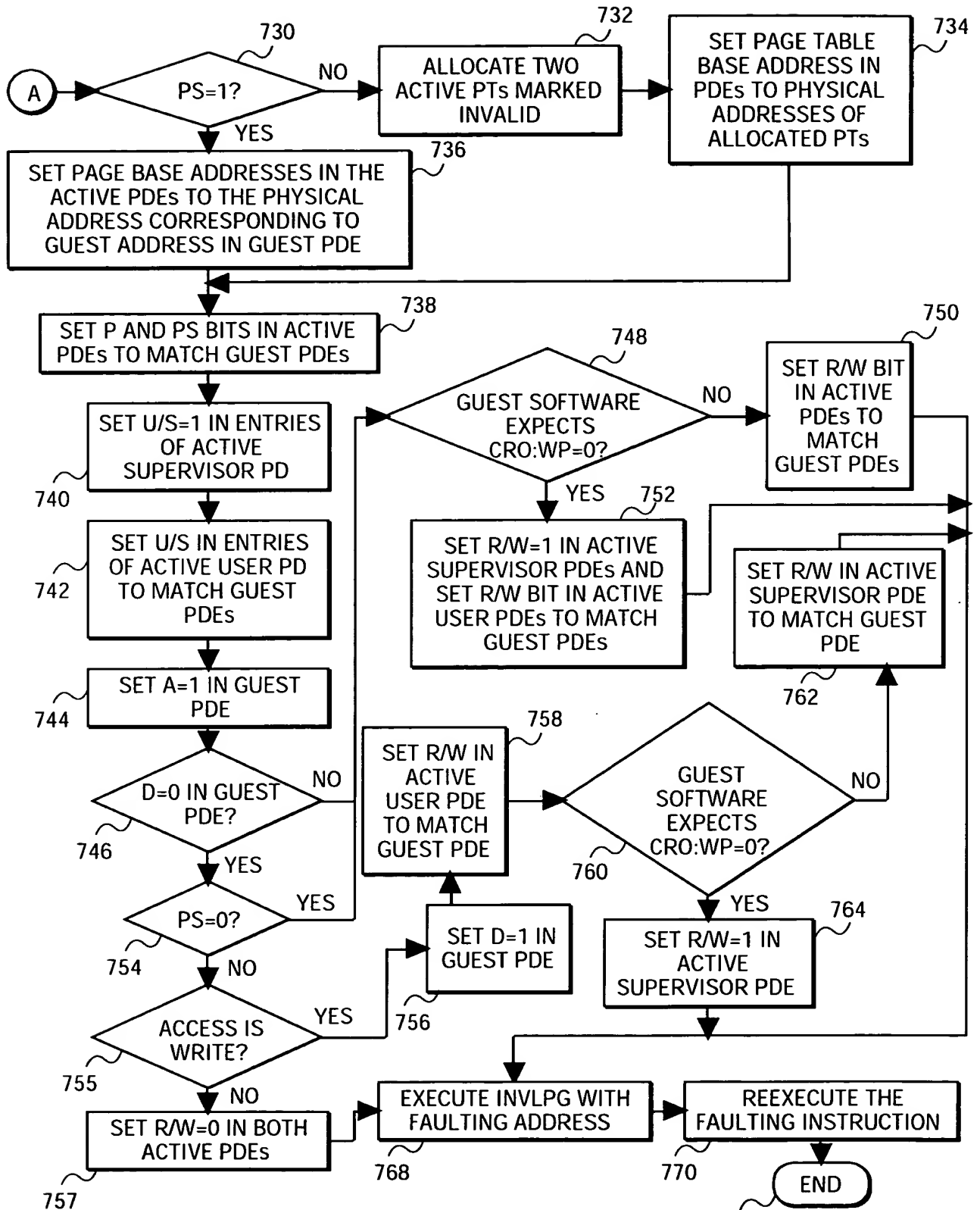


FIG. 7B

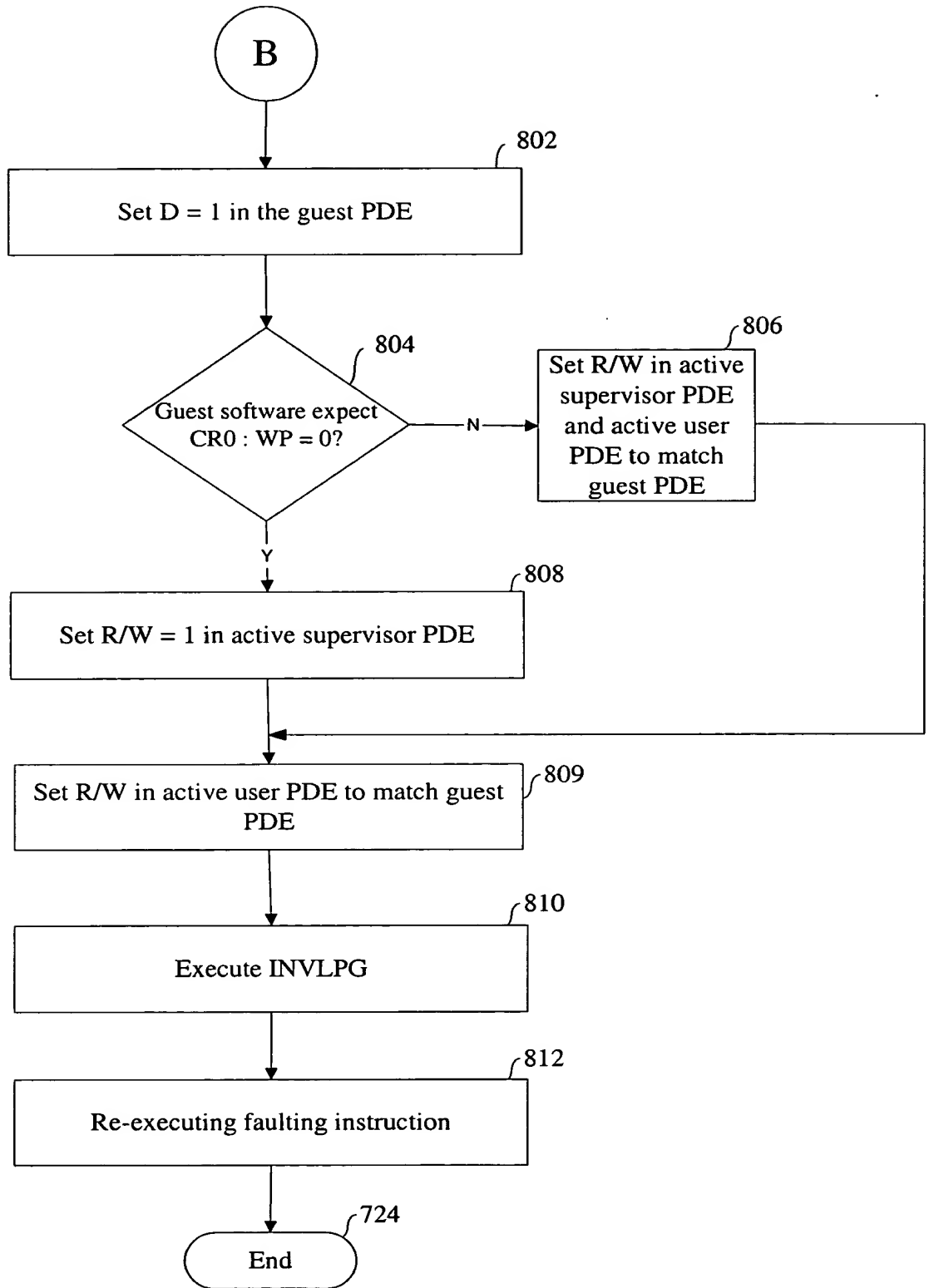


FIG. 7C

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FIG. 8

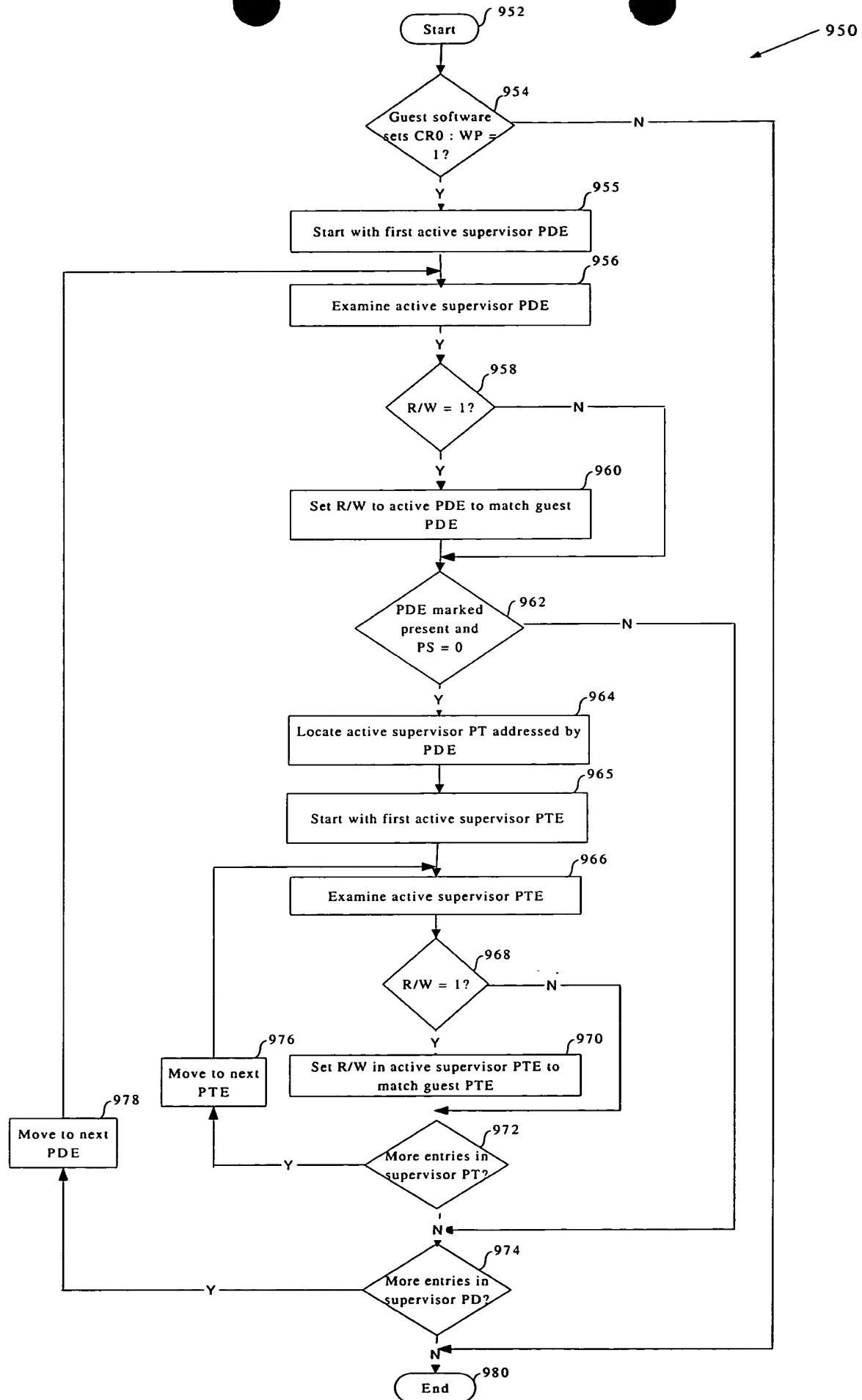


FIG. 9

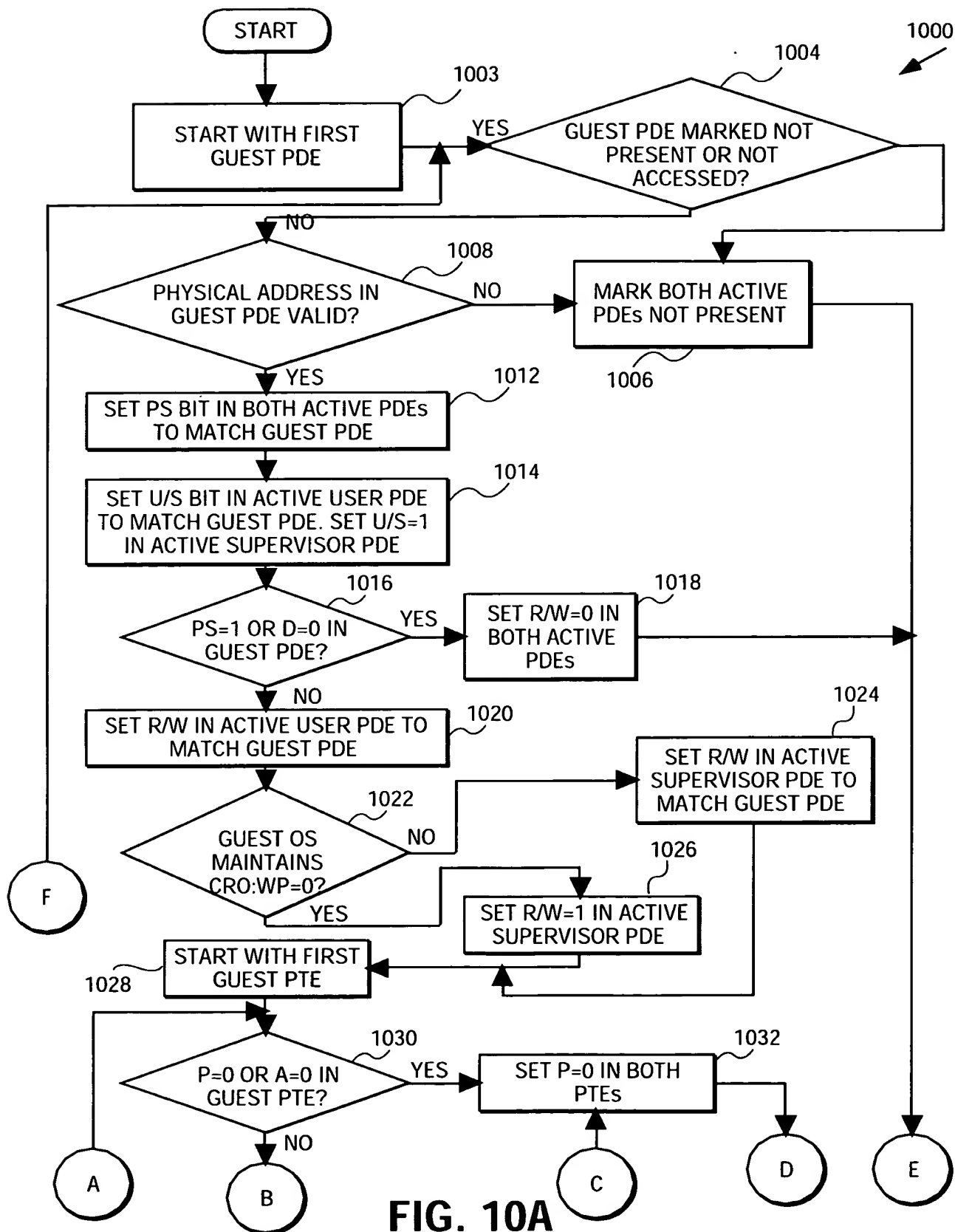


FIG. 10A

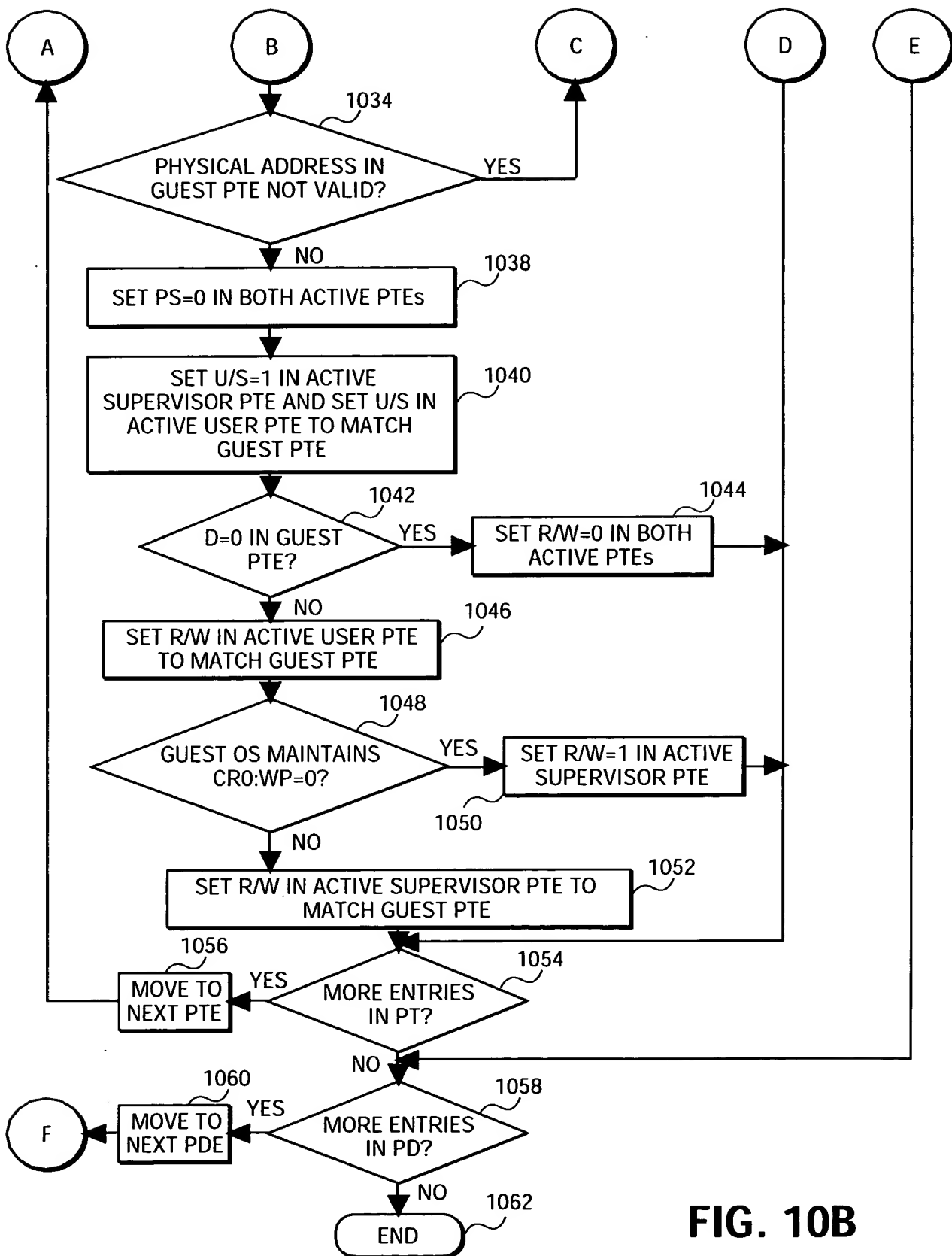


FIG. 10B

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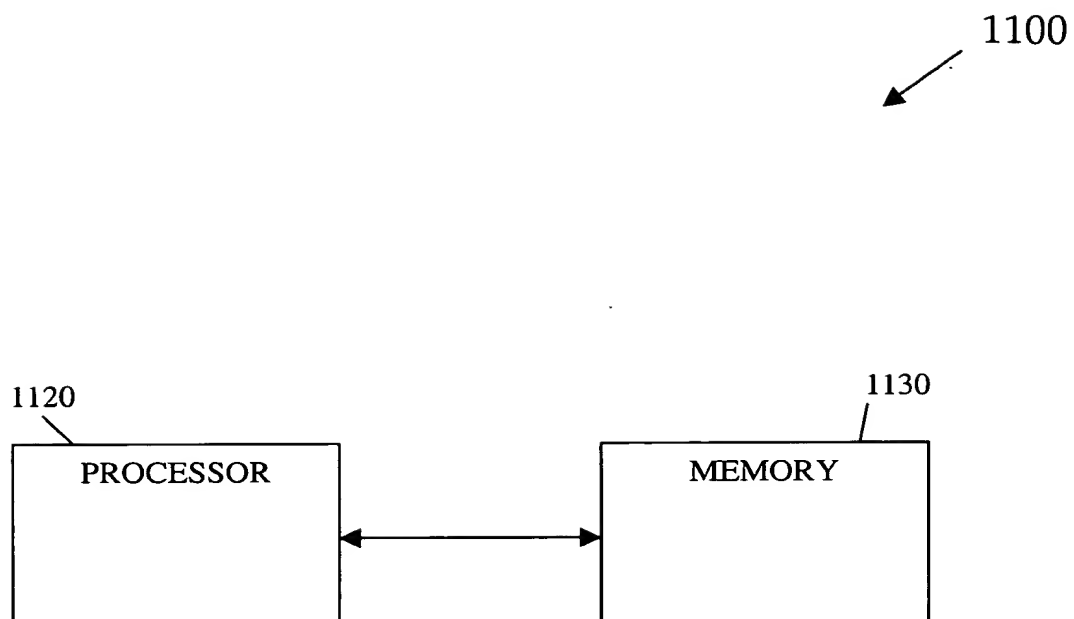


FIG. 11